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September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: 📄 pdf(613.63 KB)
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2 The information age and the printing press: looking backward to see ahead   ■
James A. Dewar
August 2000 **Ubiquity**, Volume 1 Issue 25

Full text available: 🌐 html(112.11 KB)   Additional Information: full citation, index terms

3 Information retrieval session 8: efficiency: Online duplicate document detection: ■
signature reliability in a dynamic retrieval environment
Jack G. Conrad, Xi S. Guo, Cindy P. Schriber
November 2003 **Proceedings of the twelfth international conference on Information and
                knowledge management**
Full text available: 📄 pdf(215.37 KB)   Additional Information: full citation, abstract, references, index terms

As online document collections continue to expand, both on the Web and in proprietary
environments, the need for duplicate detection becomes more critical. Few users wish to
retrieve search results consisting of sets of duplicate documents, whether identical
duplicates or close matches. Our goal in this work is to investigate the phenomenon and
determine one or more approaches that minimize its impact on search results. Recent work
has focused on using some form of signature to characterize a do ...

Keywords: data management, doc signatures, duplicate document detection

4 Launching the new era   ■
Kazuhiro Fuchi, Robert Kowalski, Koichi Furukawa, Kazunori Ueda, Ken Kahn, Takashi
Chikayama, Evan Tick
March 1993 **Communications of the ACM**, Volume 36 Issue 3

Full text available: 📄 pdf(3.45 MB)   Additional Information: full citation, references, index terms, review

5 What next?: A dozen information-technology research goals

Jim Gray

January 2003 **Journal of the ACM (JACM)**, Volume 50 Issue 1

Full text available: 📄 pdf(1.18 MB)   Additional Information: full citation, references, citings, index terms

6 "I'll get that off the audio": a case study of salvaging multimedia meeting records

Thomas P. Moran, Leysia Palen, Steve Harrison, Patrick Chiu, Don Kimber, Scott Minneman, William van Melle, Polle Zellweger

March 1997 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available: 📄 pdf(1.17 MB)   Additional Information: full citation, references, citings, index terms

Keywords: LiveBoard, activity capture, audio recording, meeting support tools, multimedia, notetaking, salvaging, work process support

7 Section 02: perspectives: How does the design community think about design?

Michael E. Atwood, Katherine W. McCain, Jodi C. Williams

June 2002 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques**

Full text available: 📄 pdf(912.43 KB)   Additional Information: full citation, abstract, references, index terms

Design is a term that brings many people together. Collectively, we distinguish ourselves from others by the fact that we are *designers* and members of a *design community*. But, *design* is also a term that pushes people apart. The *design* that some value in the new fashions in the boutiques in Milan is not seen by everyone as *design*. While some are impressed with the *design* of a new telephone, not everyone sees this as *design*. As a community, w ...

Keywords: design taxonomy, theories of design

8 Automated categorization in the international patent classification

C. J. Fall, A. Törcsvári, K. Benzineb, G. Karetka

April 2003 **ACM SIGIR Forum**, Volume 37 Issue 1

Full text available: 📄 pdf(1.32 MB)   Additional Information: full citation, abstract, references

A new reference collection of patent documents for training and testing automated categorization systems is established and described in detail. This collection is tailored for automating the attribution of international patent classification codes to patent applications and is made publicly available for future research work. We report the results of applying a variety of machine learning algorithms to the automated categorization of English-language patent documents. This procedure involves a ...

Keywords: IPC taxonomy, automated categorization, patent, support vector machines

9 The platform for privacy preference as a social protocol: An examination within the U.S. policy context

Harry Hochheiser

November 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 4

Full text available: 📄 pdf(241.03 KB)   Additional Information: full citation, abstract, references, index terms

As a "social protocol" aimed at providing a technological means to address concerns over Internet privacy, the Platform for Privacy Preferences (P3P) has been controversial since its announcement in 1997. In the U.S., critics have decried P3P as an industry attempt to avoid meaningful privacy legislation, while developers have portrayed the proposal as a tool for helping users make informed decisions about the impact of their Web surfing choices. This dispute touches upon the privacy model under ...

Keywords: P3P, Privacy, social protocols

10 User interface software tools
Brad A. Myers
March 1995 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 2 Issue 1

Full text available: 📄 pdf(3.25 MB)   Additional Information: full citation, abstract, references, citings, index terms

Almost as long as there have been user interfaces, there have been special software systems and tools to help design and implement the user interface software. Many of these tools have demonstrated significant productivity gains for programmers, and have become important commercial products. Others have proven less successful at supporting the kinds of user interfaces people want to build. This article discusses the different kinds of user interface software tools, and investigates why some ...

Keywords: interface builders, toolkits, user interface development environments, user interface software

11 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: 📄 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

12 Complex information processing: a file structure for the complex, the changing and the indeterminate
T. H. Nelson
August 1965 **Proceedings of the 1965 20th national conference**

Full text available: 📄 pdf(1.35 MB)   Additional Information: full citation, abstract, references, citings, index terms

THE KINDS OF FILE structures required if we are to use the computer for personal files and as an adjunct to creativity are wholly different in character from those customary in business and scientific data processing. They need to provide the capacity for intricate and idiosyncratic arrangements, total modifiability, undecided alternatives, and thorough internal documentation. I want to explain how some ideas developed and what they are. The original problem was to specify a comp ...

13 Electronic commerce: a half-empty glass?

Sasa Dekleva

June 2000 **Communications of the AIS**

Full text available: 📄 pdf(343.49 KB)   Additional Information: full citation, references

14 Copy detection mechanisms for digital documents

Sergey Brin, James Davis, Héctor García-Molina

May 1995 **ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD international conference on Management of data**, Volume 24 Issue 2

Full text available: 📄 pdf(1.51 MB)   Additional Information: full citation, abstract, references, citings, index terms

In a digital library system, documents are available in digital form and therefore are more easily copied and their copyrights are more easily violated. This is a very serious problem, as it discourages owners of valuable information from sharing it with authorized users. There are two main philosophies for addressing this problem: prevention and detection. The former actually makes unauthorized use of documents difficult or impossible while the latter makes it easier to discover such activity.I ...

15 Time-work tradeoffs for parallel algorithms

Thomas H. Spencer

September 1997 **Journal of the ACM (JACM)**, Volume 44 Issue 5

Full text available: 📄 pdf(343.80 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Some parallel algorithms have the property that, as they are allowed to take more time, the total work that they do is reduced. This paper describes several algorithms with this property. These algorithms solve important problems on directed graphs, including breadth-first search, topological sort, strong connectivity, and and the single source shorest path problem. All of the algorithms run on the EREW PRAM model of parallel computer, except the algorithm for strong connectivity, which run ...

Keywords: PRAM, breadth first search, nearby lists, shortest path, topological sort, transitive closure

16 List processing in real time on a serial computer

Henry G. Baker

April 1978 **Communications of the ACM**, Volume 21 Issue 4

Full text available: 📄 pdf(1.55 MB)   Additional Information: full citation, abstract, references, citings, index terms

A real-time list processing system is one in which the time required by the elementary list operations (e.g. CONS, CAR, CDR, RPLACA, RPLACD, EQ, and ATOM in LISP) is bounded by a (small) constant. Classical implementations of list processing systems lack this property because allocating a list cell from the heap may cause a garbage collection, which process requires time proportional to the heap size to finish. A real-time list processing system is presented which continuously reclaims garb ...

Keywords: CDR-coding, LISP, compacting, file or database management, garbage collection, list processing, real-time, reference counting, storage allocation, storage management, virtual memory

17

A patent search and classification system
Leah S. Larkey
August 1999 **Proceedings of the fourth ACM conference on Digital libraries**

Full text available: pdf(164.37 KB)   Additional Information: full citation, references, citings, index terms

Keywords: applications, classification, digital libraries, information retrieval, patents, systems, text categorization

18 Why the look and feel of software user interfaces should not be protected by copyright law
P. Samuelson
May 1989 **Communications of the ACM**, Volume 32 Issue 5

Full text available: pdf(1.30 MB)   Additional Information: full citation, abstract, citings, index terms

An attorney looks at how copyright law is applied to the protection of software user interfaces and makes a strong case for reevaluating the way the law views software.

19 Picture Processing by Computer
Azriel Rosenfeld
September 1969 **ACM Computing Surveys (CSUR)**, Volume 1 Issue 3

Full text available: pdf(2.69 MB)   Additional Information: full citation, references, citings, index terms

20 Sequential thematic organization of publications: how to achieve coherence in proposals and reports
J. R. Tracey, D. E. Rugh, W. S. Starkey
August 1999 **ACM SIGDOC Asterisk Journal of Computer Documentation**, Volume 23 Issue 3

Full text available: pdf(3.80 MB)   Additional Information: full citation, index terms

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